



REPLACEMENT DRAWINGS - SHEET 1 OF 24

Invention: INTRUSION DETECTION SYSTEM Serial No.: 10/750,469
Inventors: Larry C. Hardin & Lawrence V. Nash Filed: December 31, 2003
Attorney: William O. Geny, Reg. # 27,444 Telephone: (503) 227-5631

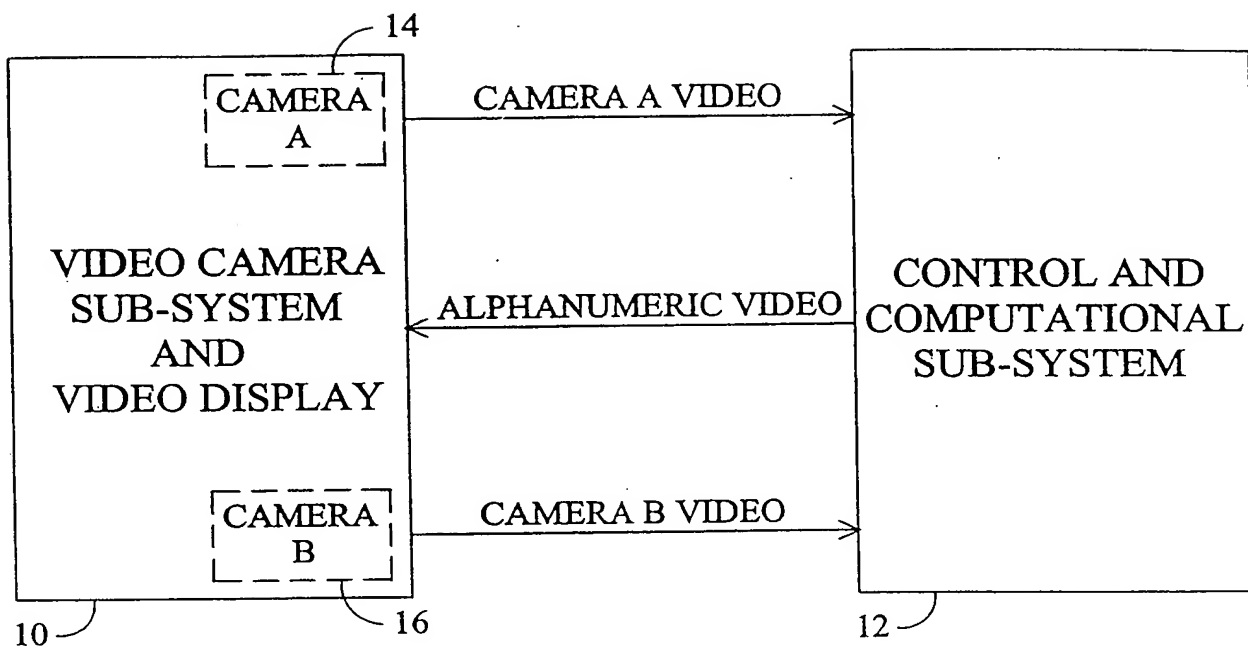


FIG. 1

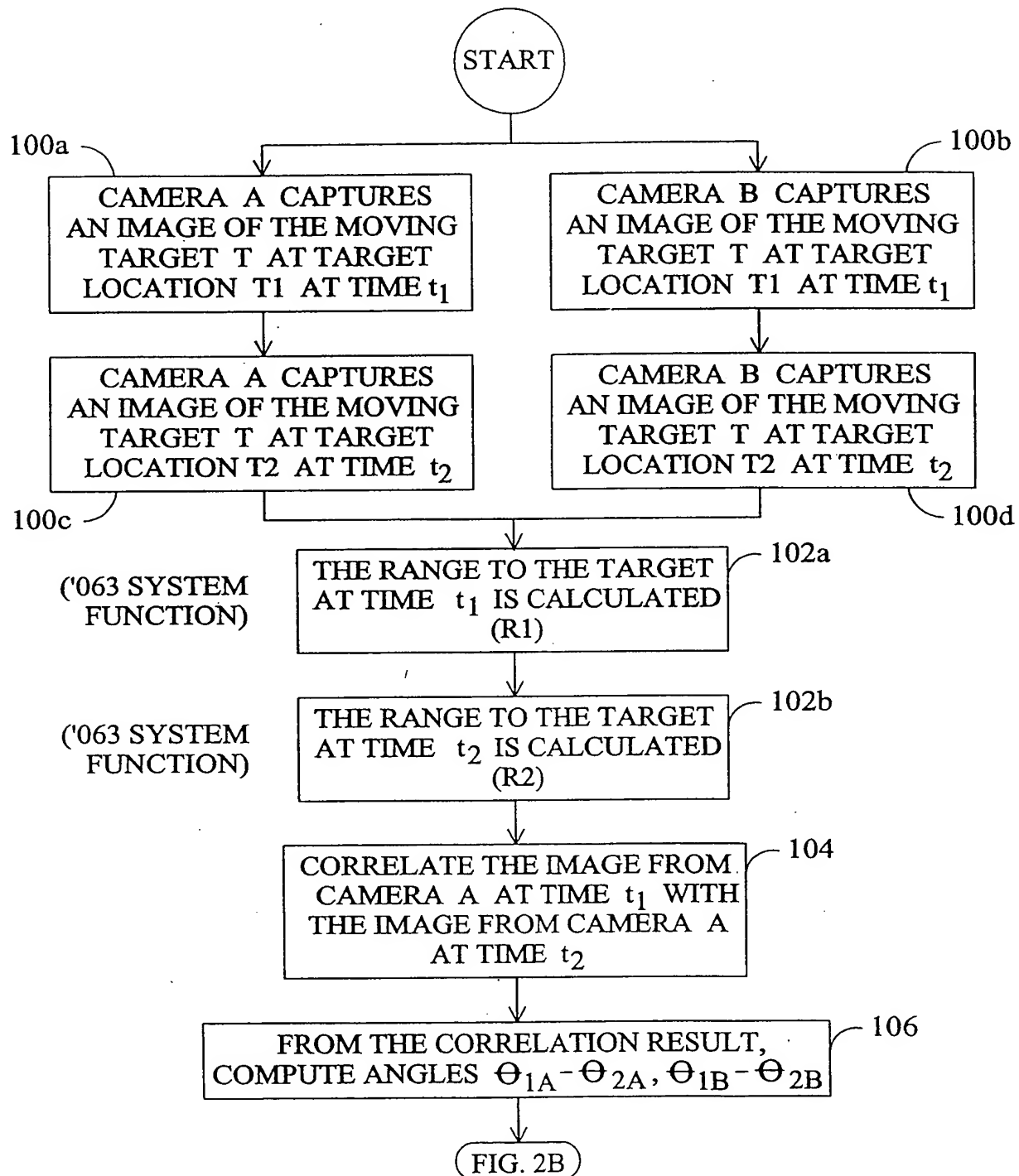


FIG. 2A

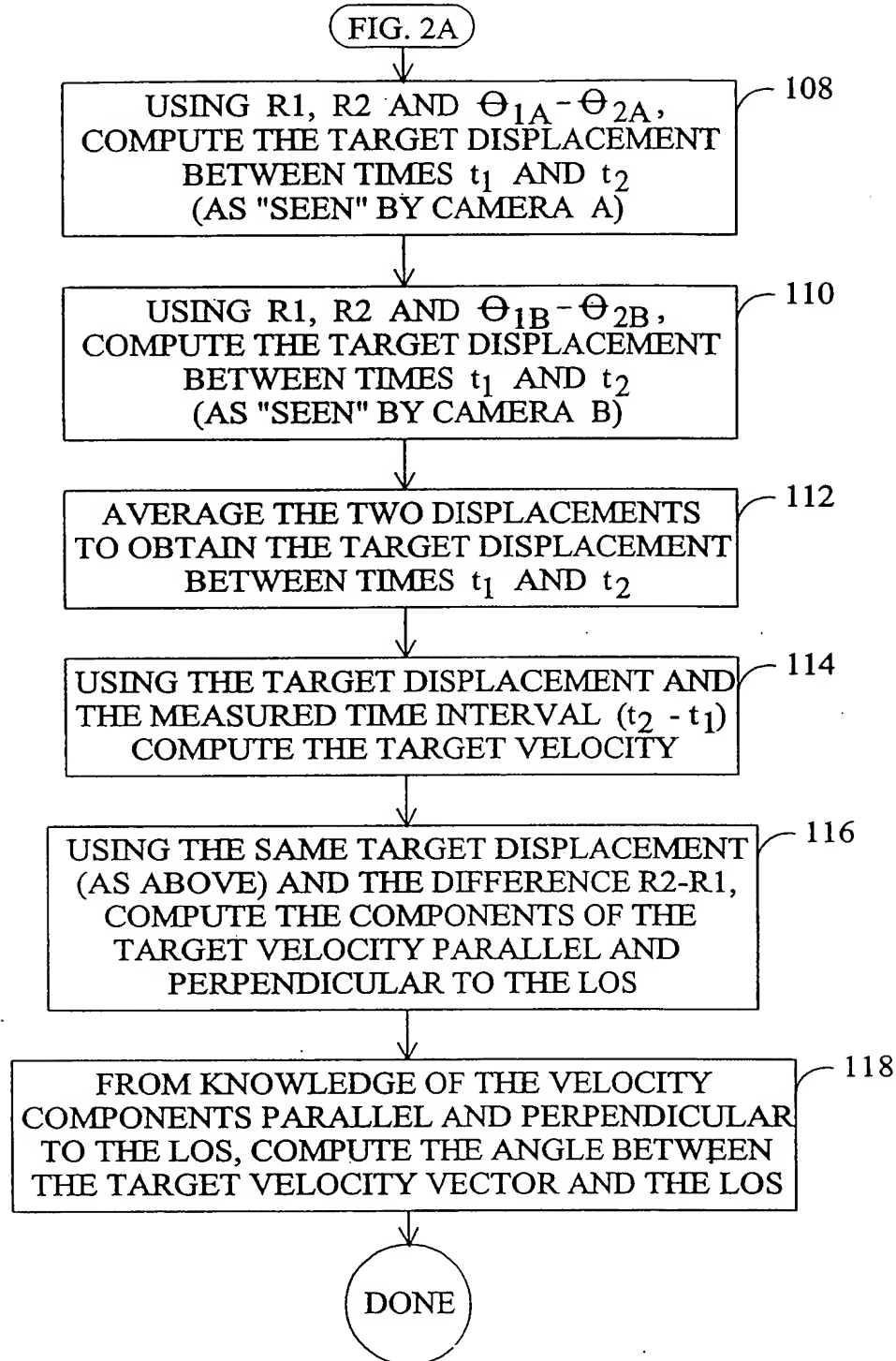
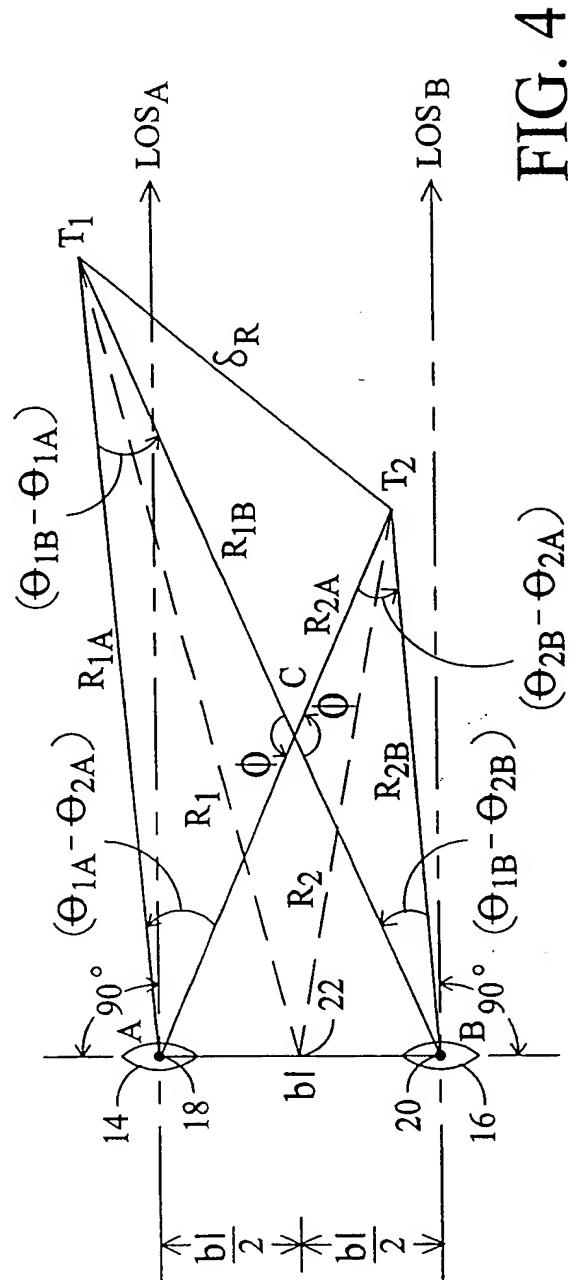
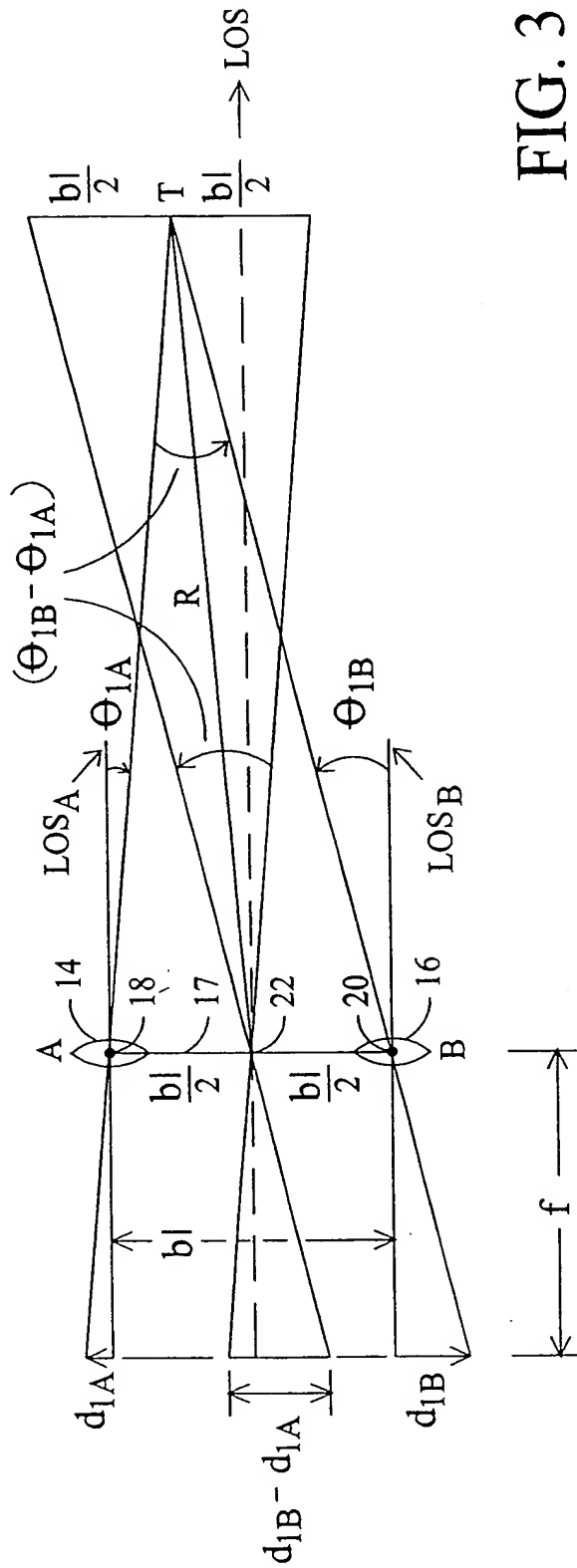


FIG. 2B



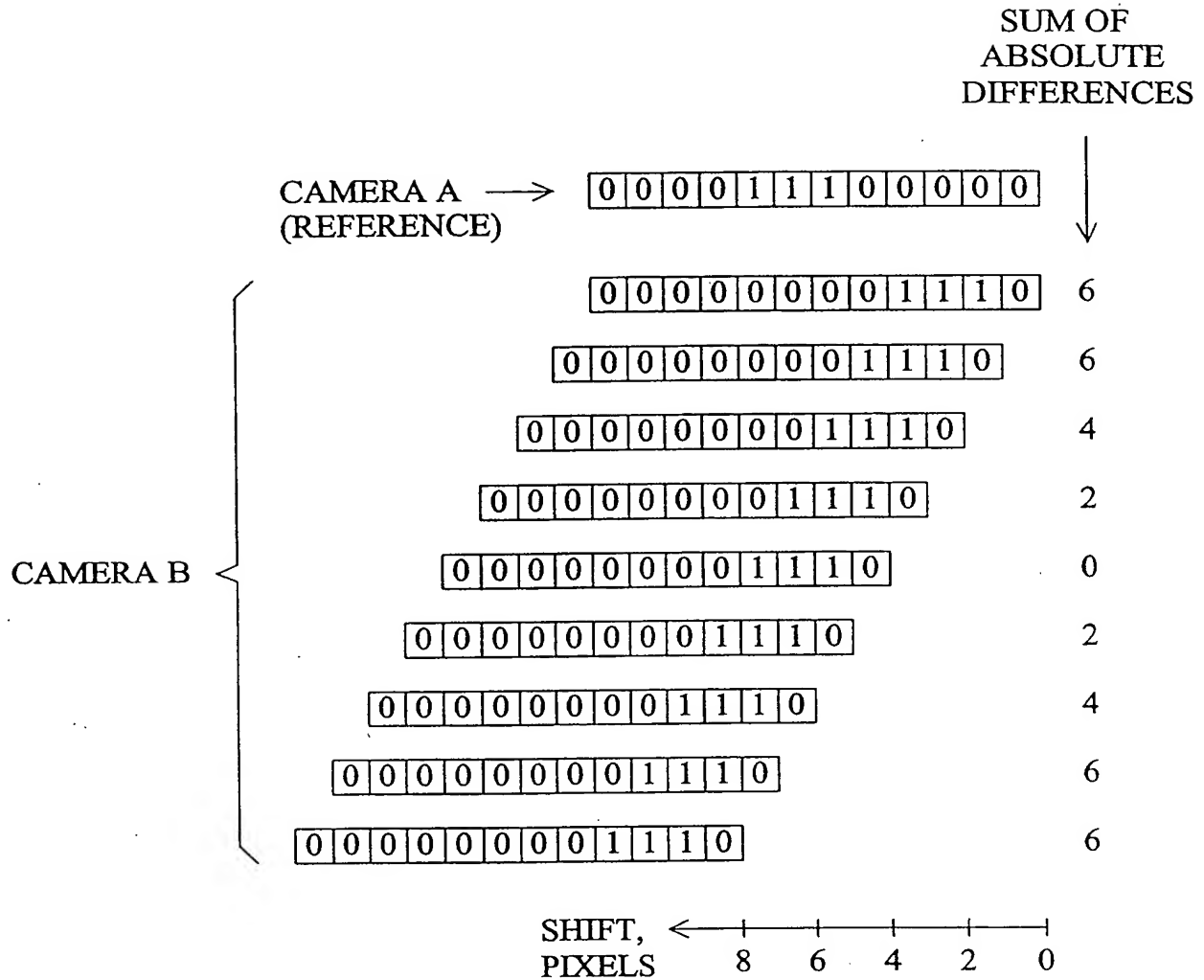


FIG. 5

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SUM OF
ABSOLUTE
DIFFERENCES

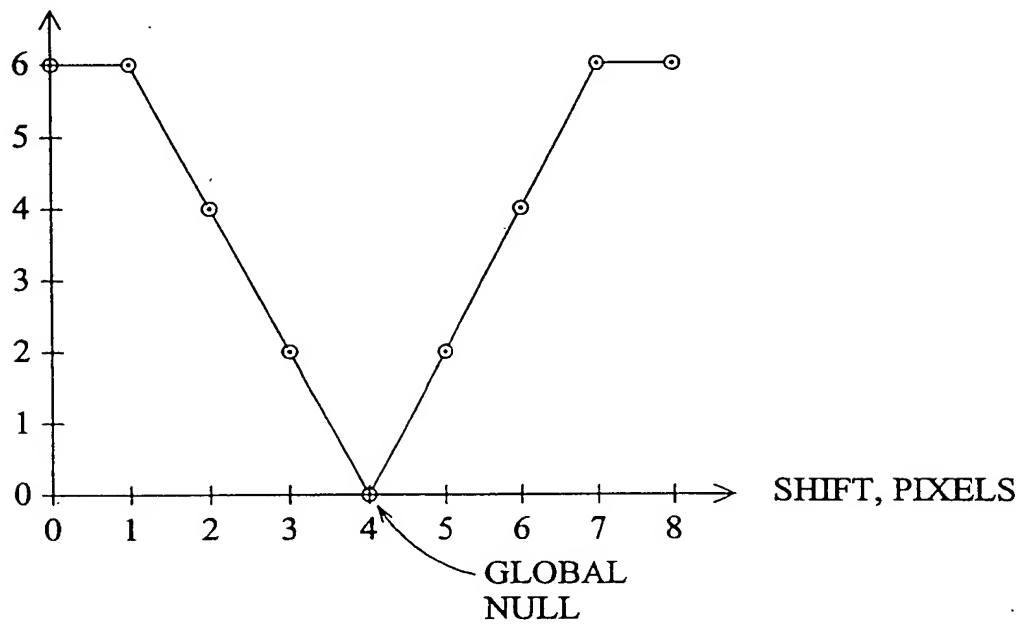


FIG. 6

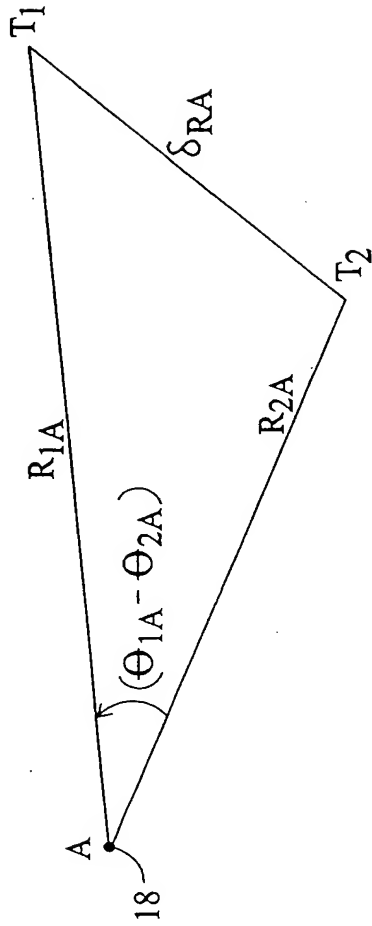


FIG. 7

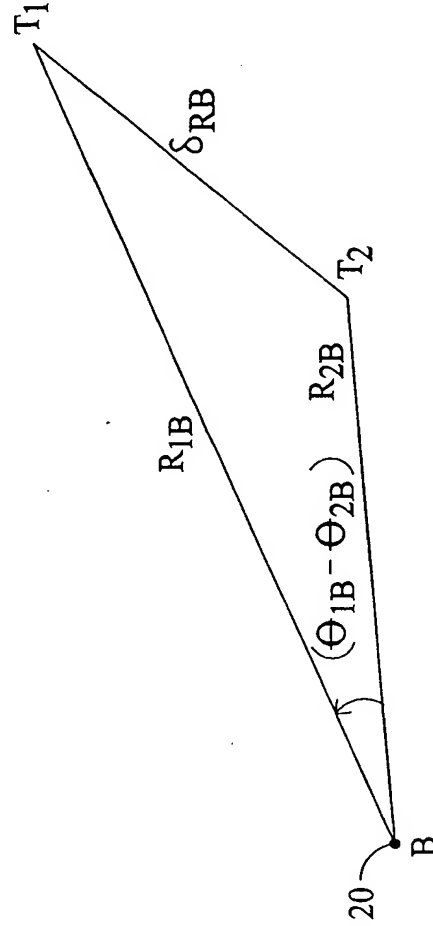


FIG. 8

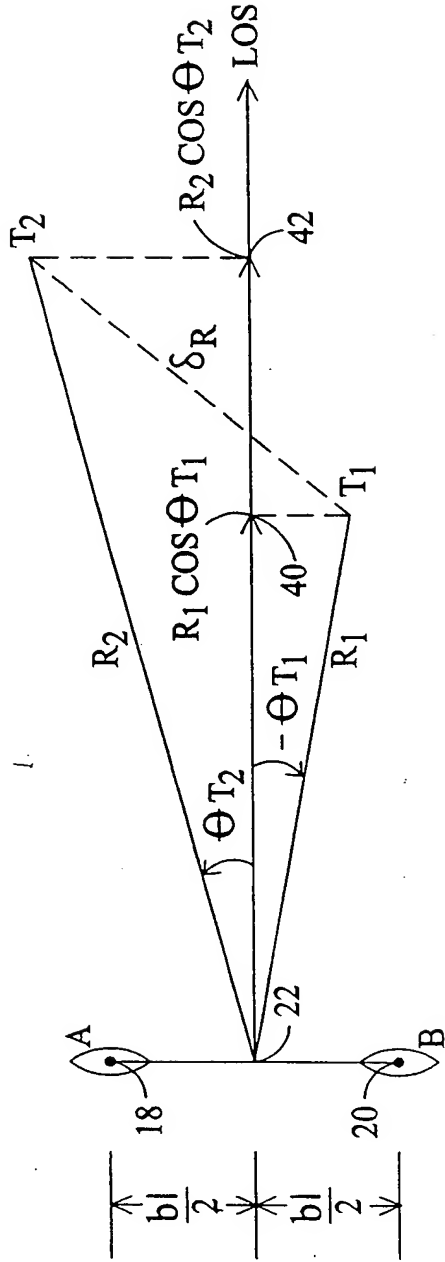


FIG. 9

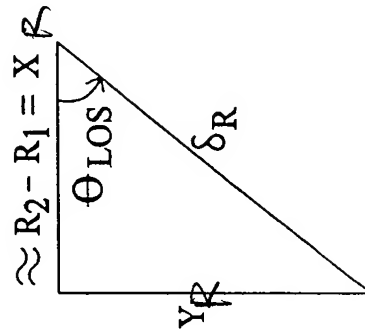


FIG. 10

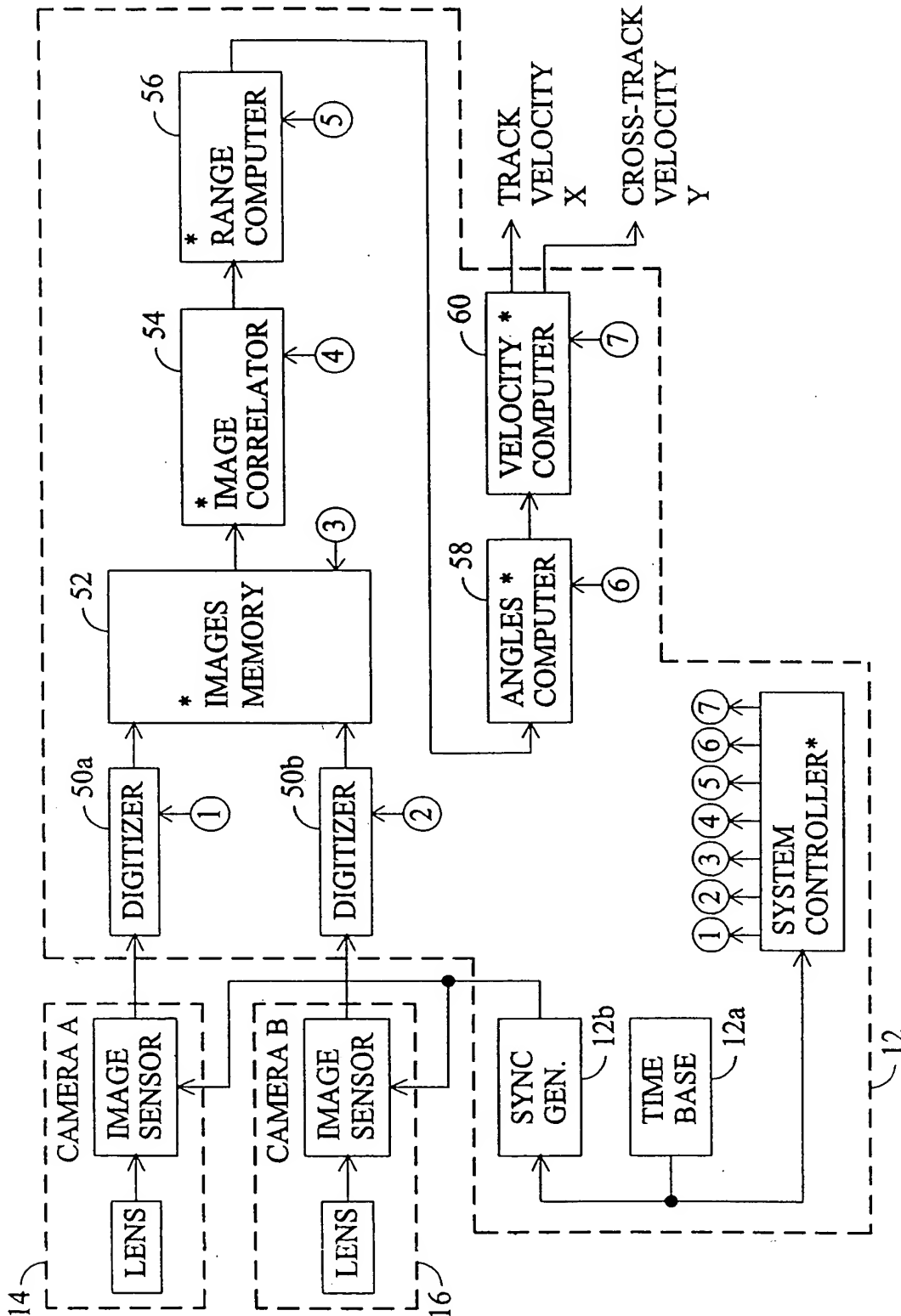


FIG. 11

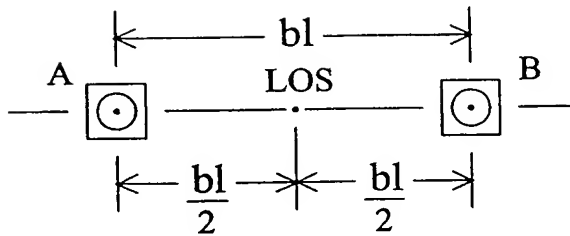


FIG. 12

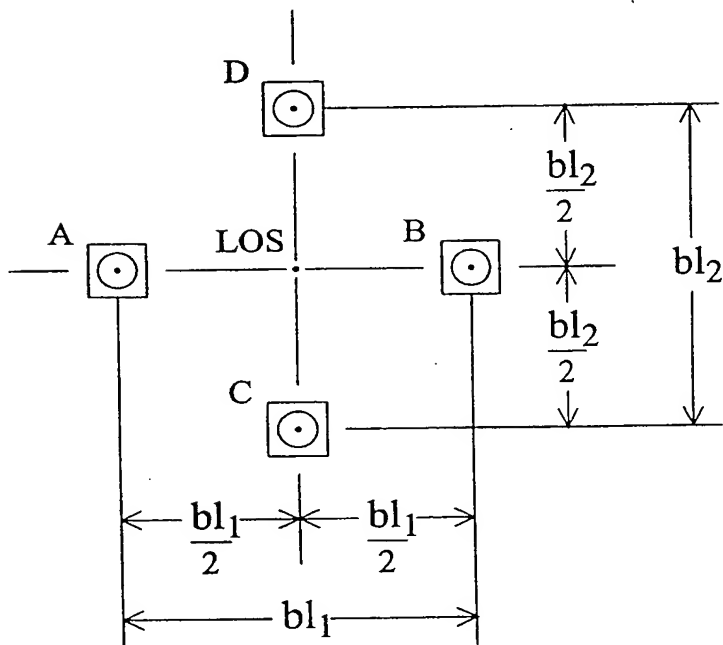


FIG. 13

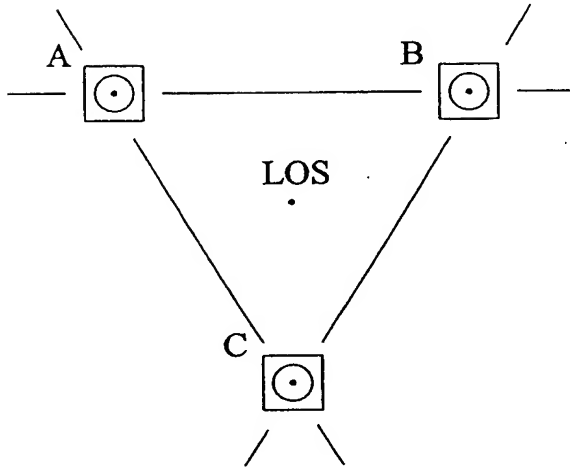


FIG. 14

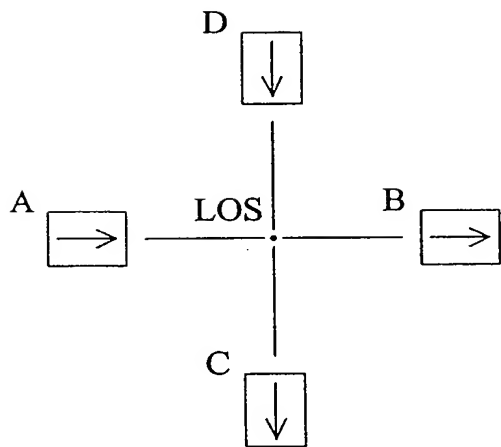
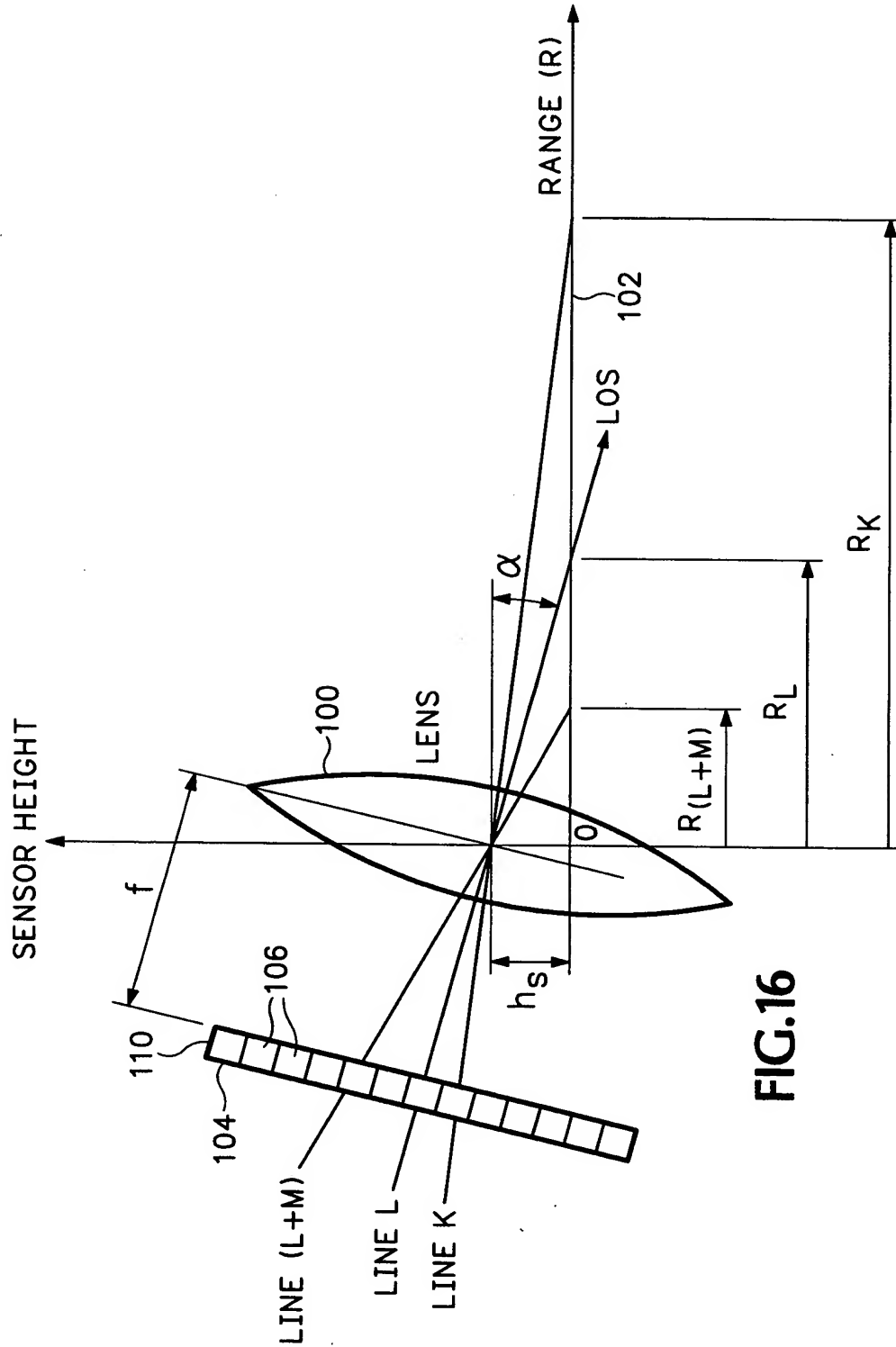


FIG. 15

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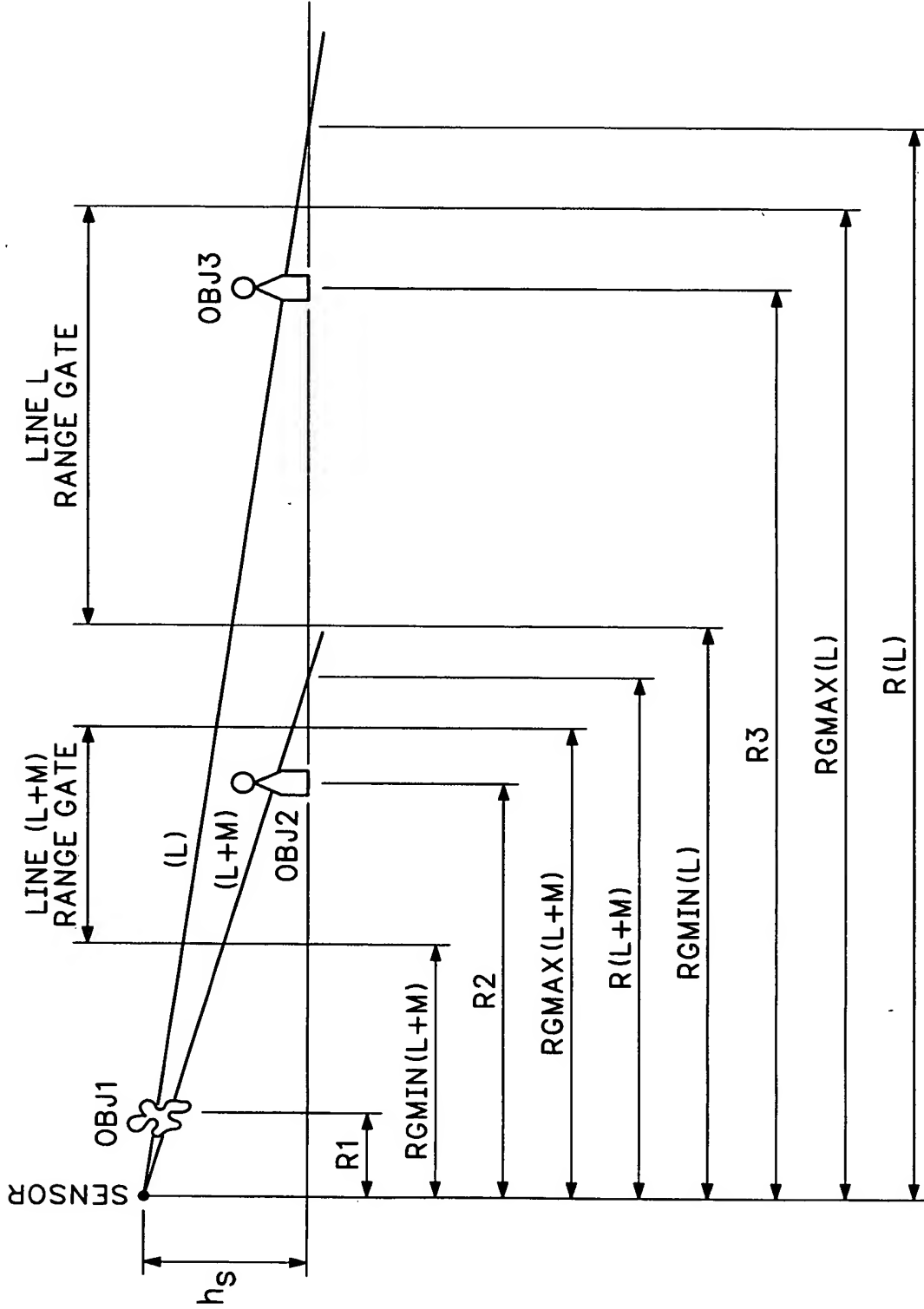


FIG. 18

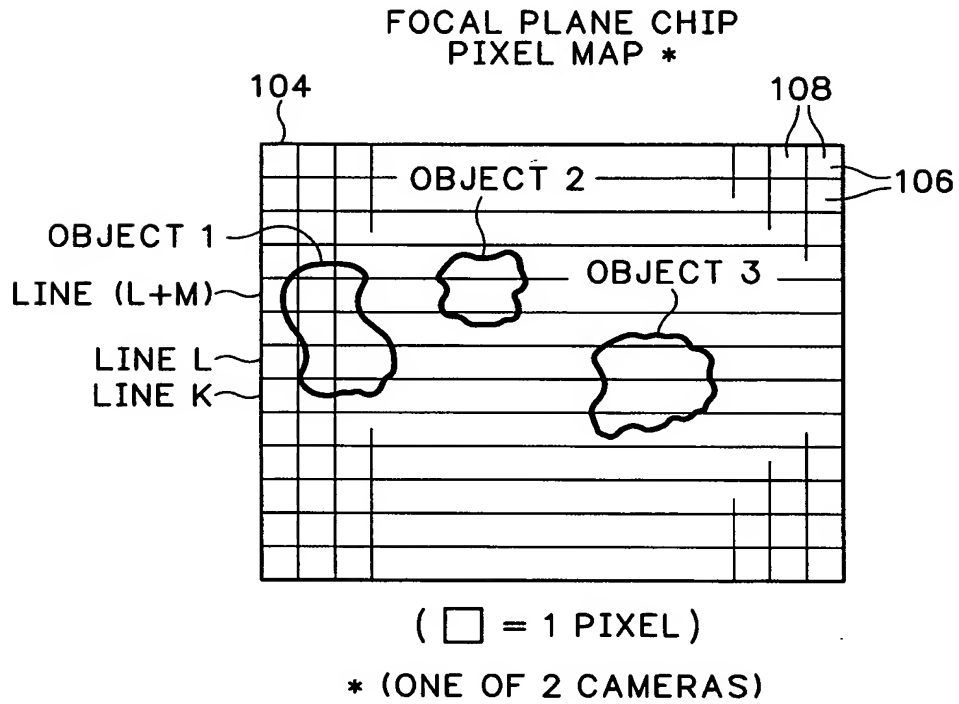


FIG.19

COMPUTE THE VIDEO LINE
NUMBER FOR A DESIRED MAX
DETECTION RANGE AND
RANGE GATE SETTINGS

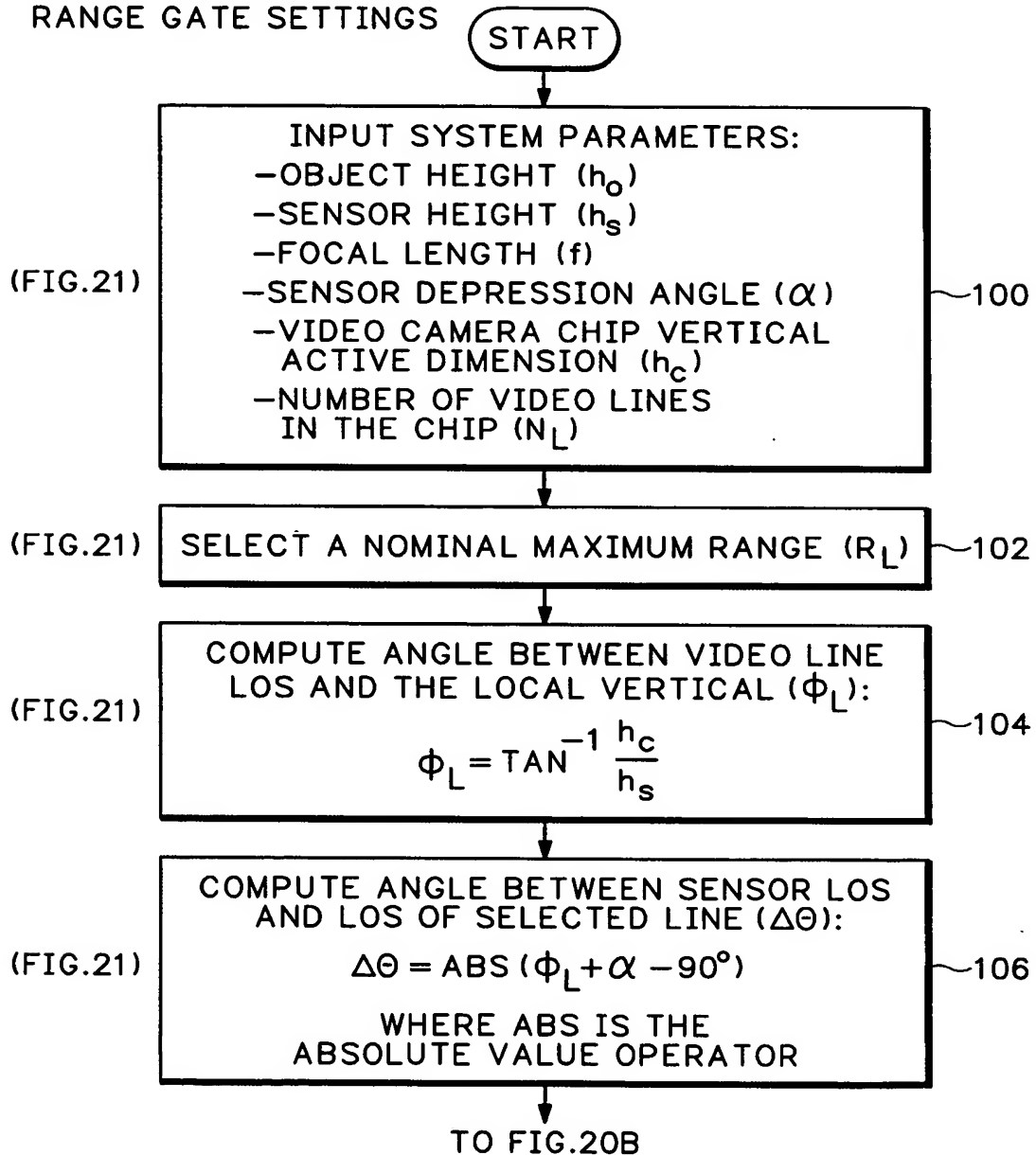
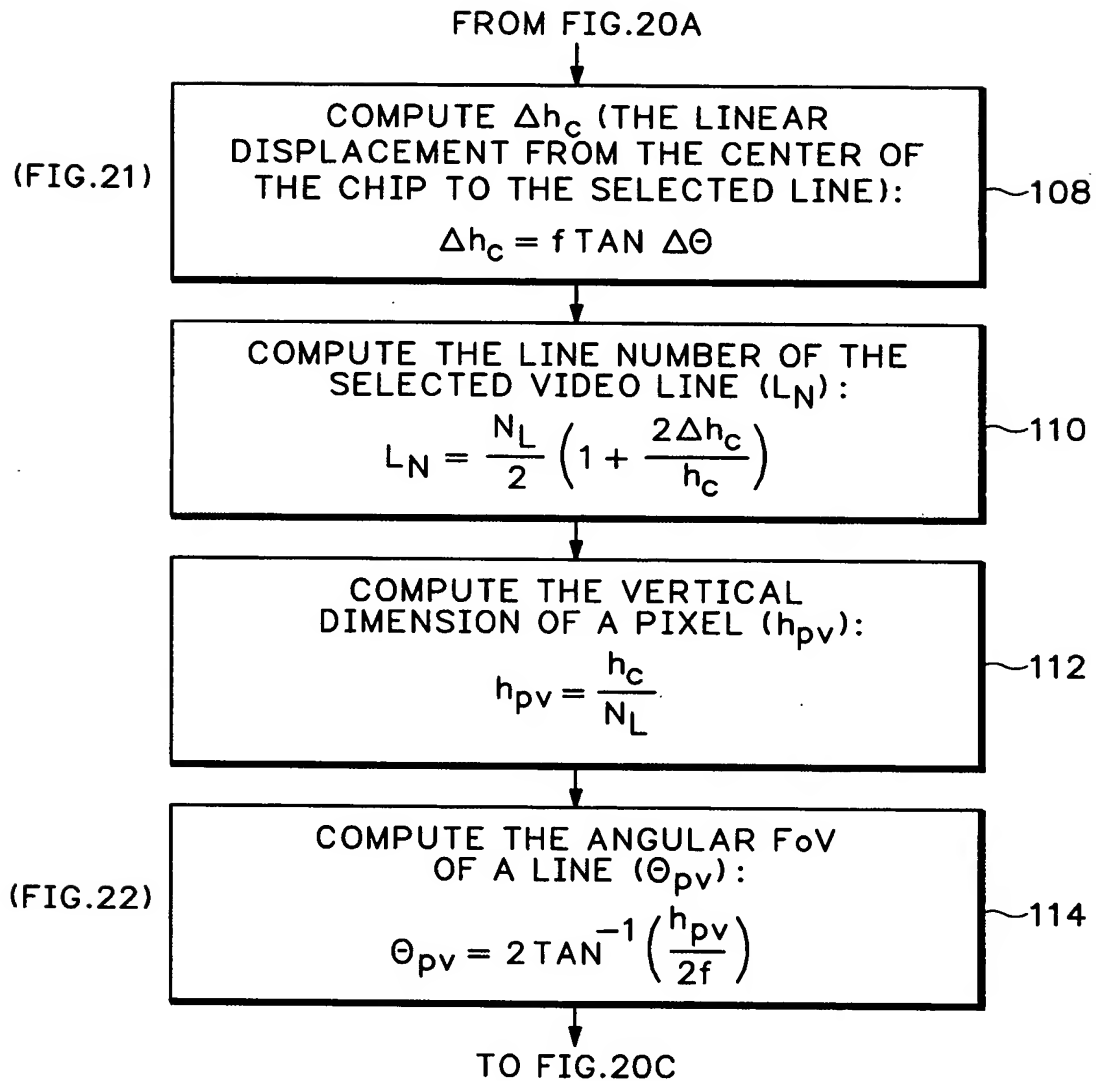


FIG. 20A

**FIG.20B**

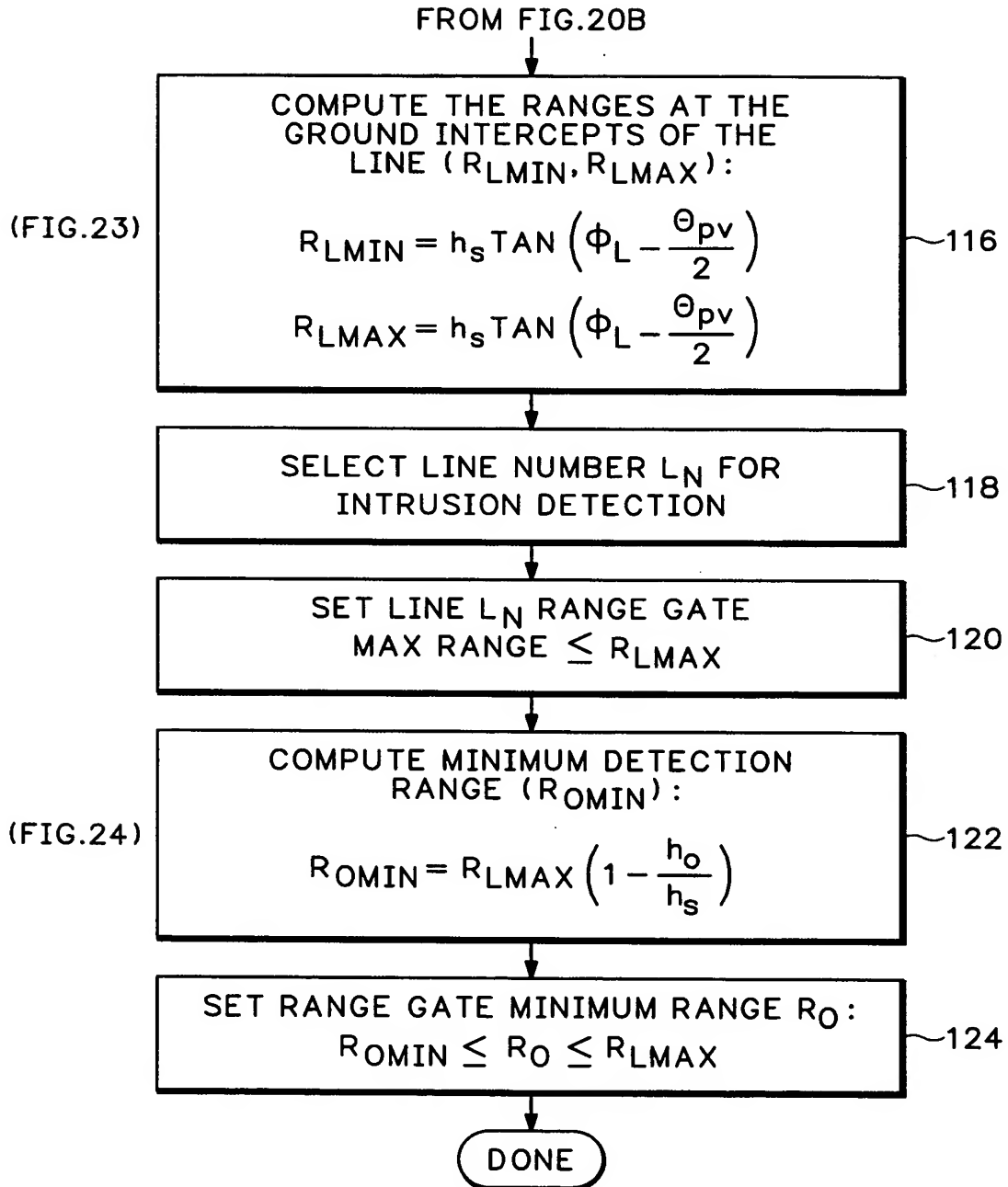
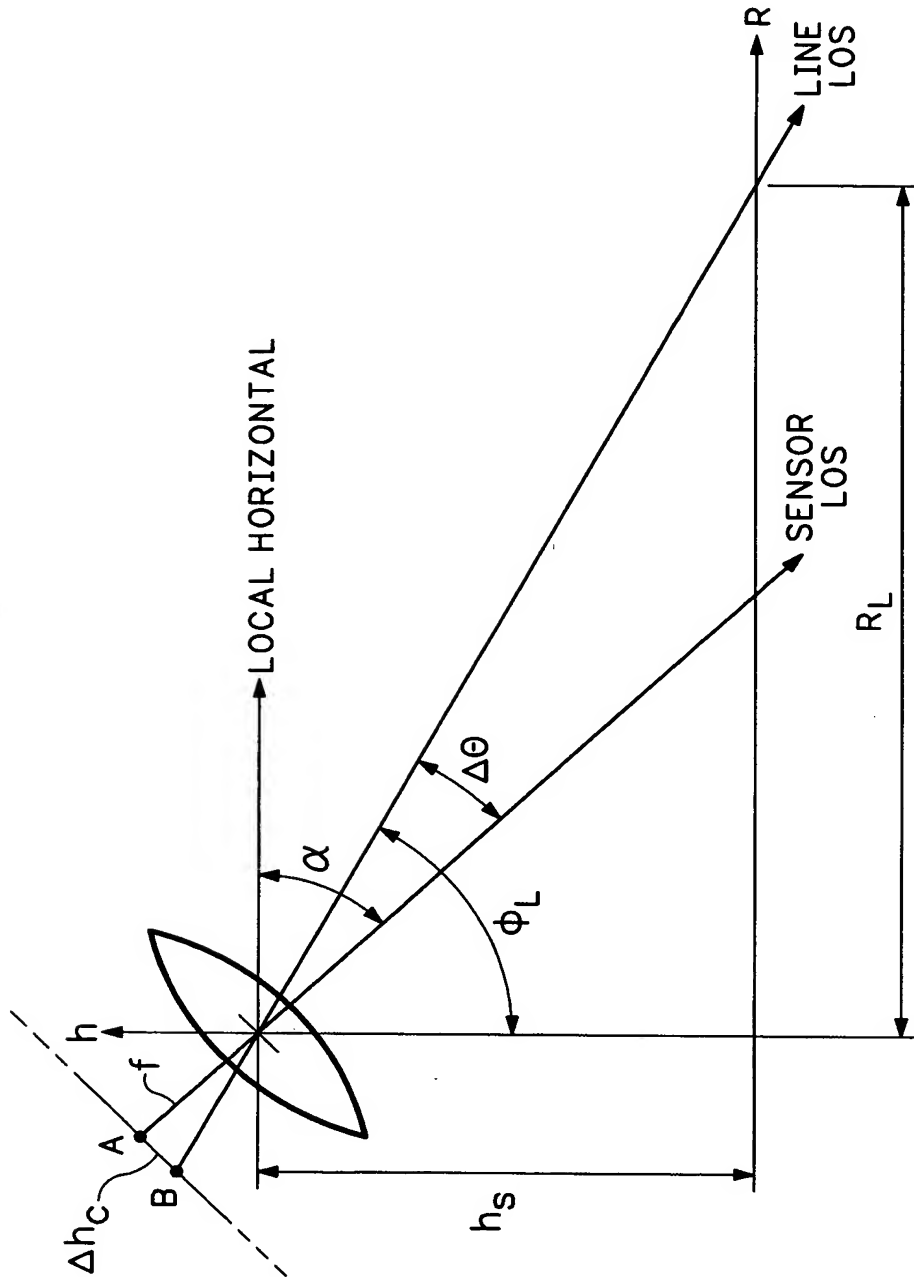
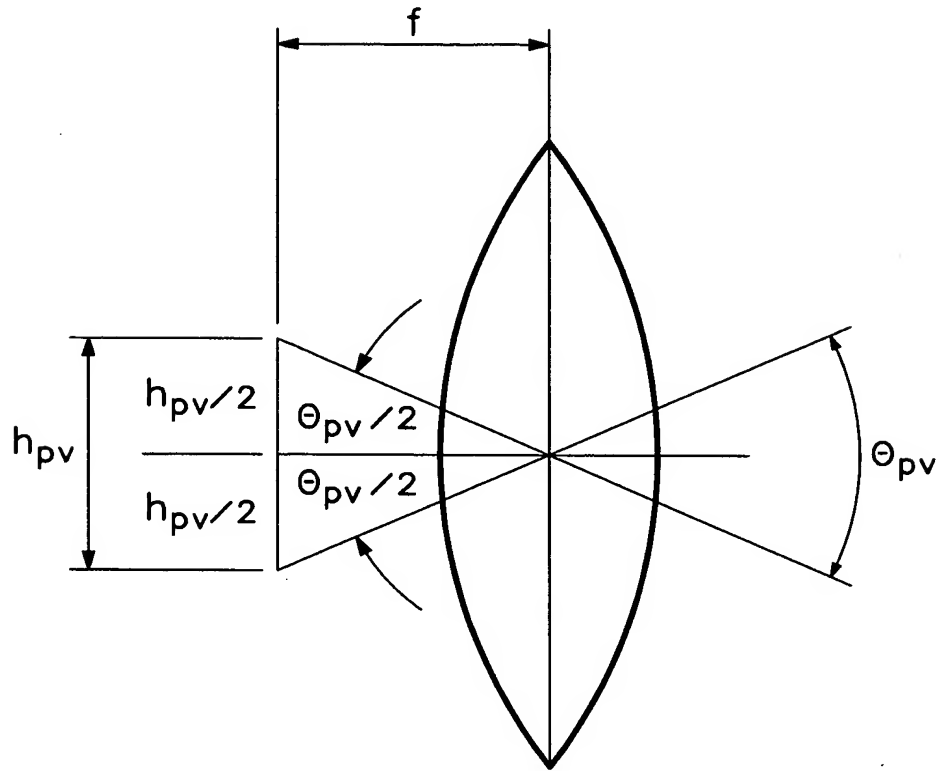


FIG.20C





$$\Theta_{pv} = 2 \tan^{-1} \frac{h_{pv}}{2f}$$

WHERE : Θ_{pv} IS THE VERTICAL
ANGULAR FoV OF A PIXEL

f IS THE FOCAL LENGTH

h_{pv} IS THE PIXEL HEIGHT

FIG.22

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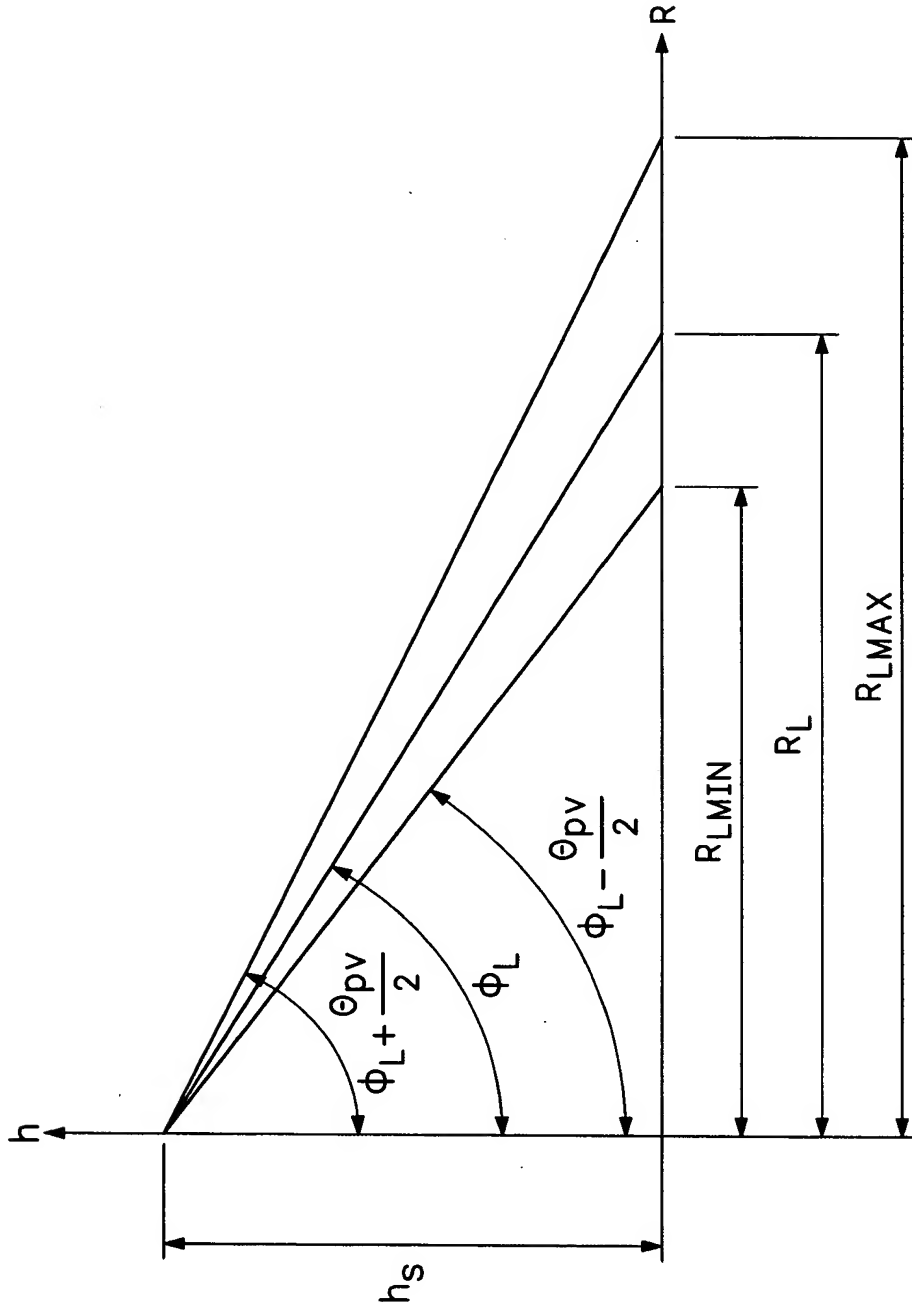


FIG. 23

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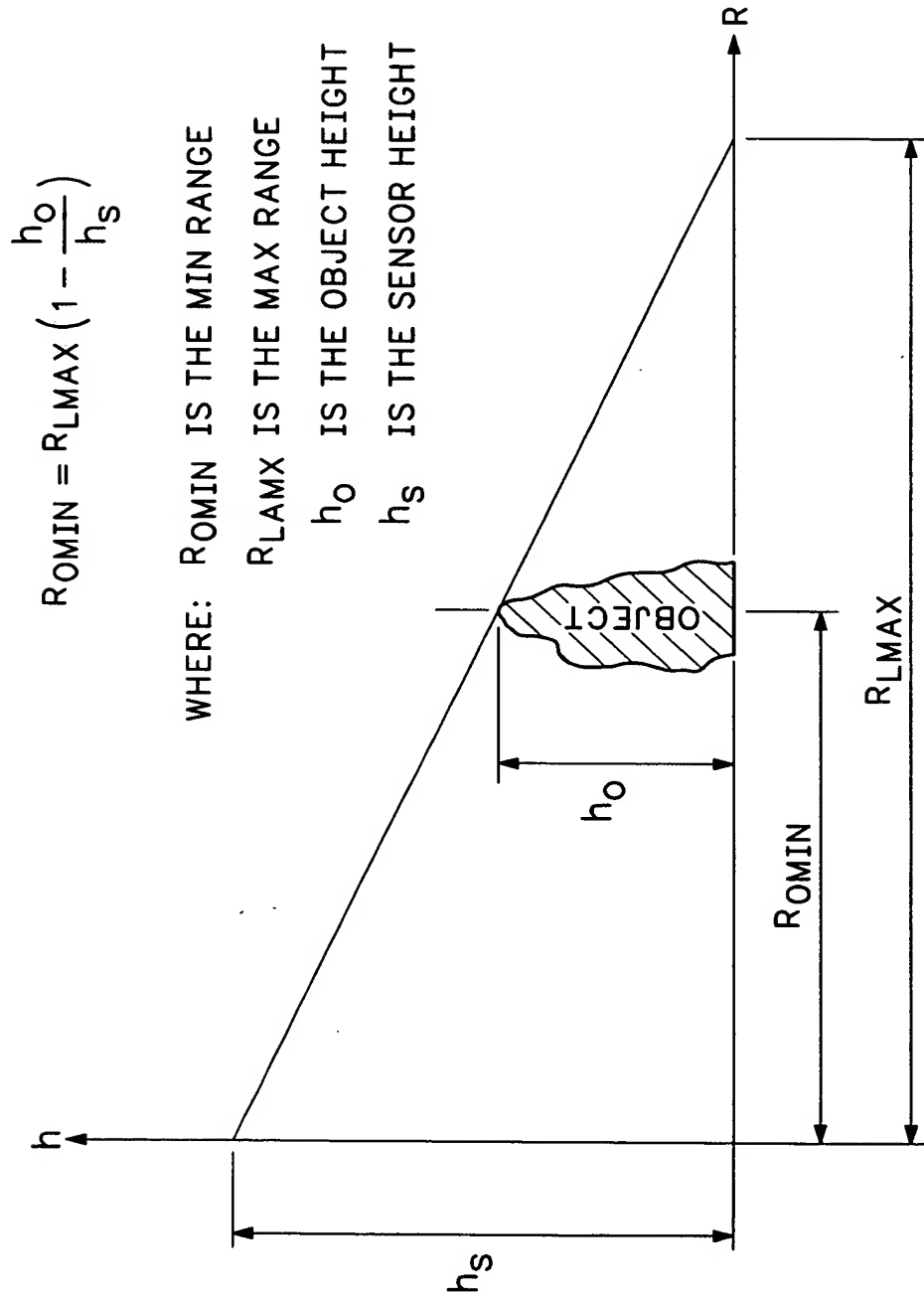
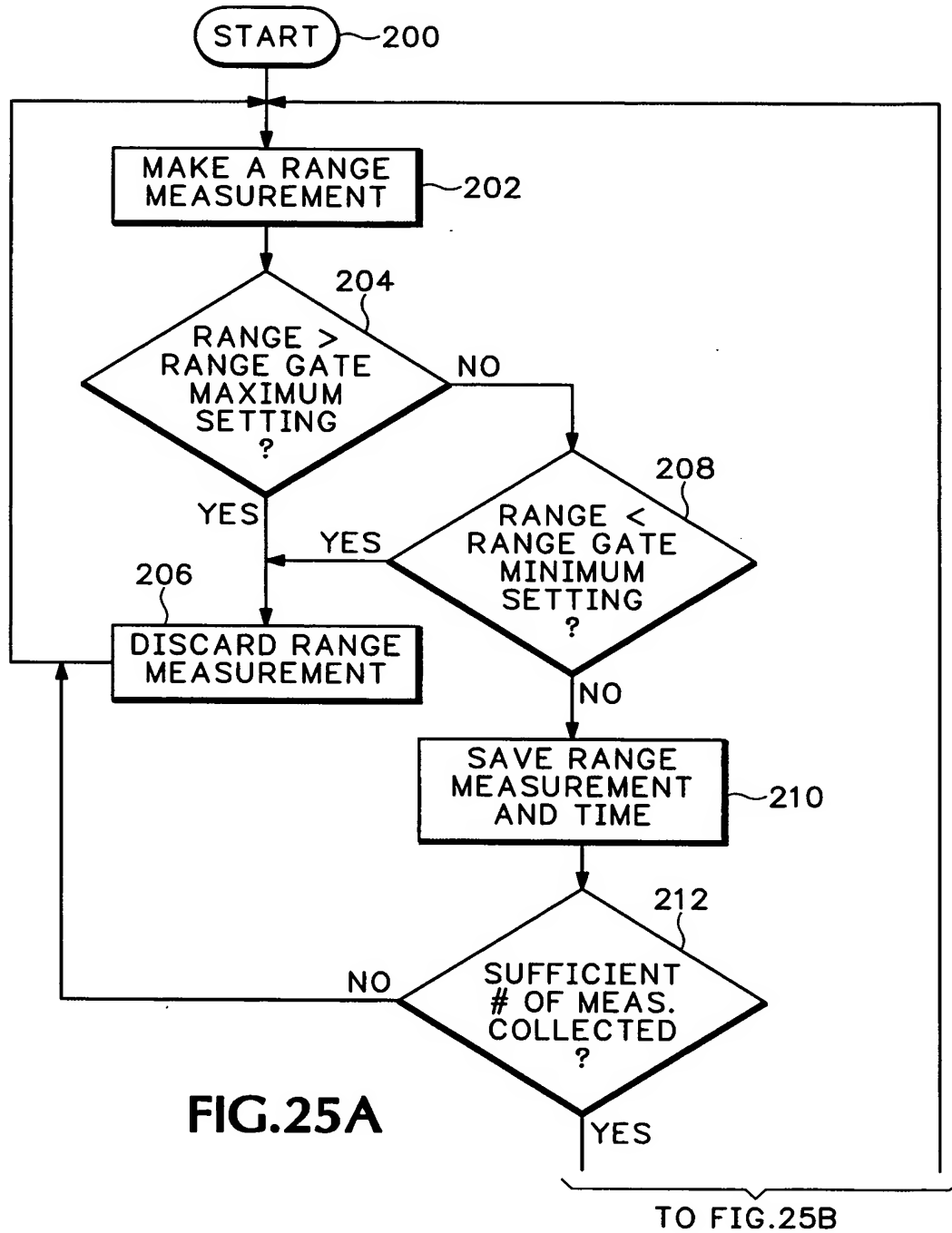


FIG.24



Invention: INTRUSION DETECTION SYSTEM

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